

Chronology of nuclear tests in the USSR (1964-1990)

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On August 5, 1963, the Treaty Banning Nuclear Weapon Tests in the Atmosphere, in Outer Space, and Under Water , also known as the "Moscow Treaty", was signed in Moscow .

Below is a table of nuclear tests and peaceful nuclear explosions conducted by the Soviet Union in the period after the signing of this treaty (i.e. from 1964 to 1990). All explosions during this period were underground.

Notes:

- 1. For group tests in kilotons, the total power of all charges detonated at the same time is indicated.
- 2. The column "serial number" continues the numbering started in the list Chronology of nuclear tests of the USSR (1949-1962)

Chronology

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
222		15.03.1964	<u>Semipalatinsk test site</u>	Degelen, Adit A-6	-	37 kt	-		
223		16.05.1964	Semipalatinsk test site	Degelen, Adit A-4	-260 m	23 kt	-		
224		06.06.1964	Semipalatinsk test site	Degelen, Adit B-2	-	1.6 kt	-		
225		19.07.1964	Semipalatinsk test site	Degelen, Adit A-5	-	26 kt	-		
226		18.08.1964	Semipalatinsk test site	Degelen, Adit A-8Sh	-	0.07 kt	-		
227		18.09.1964	<u>Novaya Zemlya Polygon</u>	Matochkin Shar, Adit G	-130 m	2 ct	-		The first underground nuclear test at the Novaya Zemlya test site.
228		30.09.1964	Semipalatinsk test site	Degelen, Adit A-6Sh	-	-	-		
229		25.10.1964	Novaya Zemlya Polygon	Matochkin Shar, Adit B	-400 m	20 kt	-		
230		16.11.1964	Semipalatinsk test site	Degelen, Adit 3-5	-	47 kt	-		
231	<u>Project "Chagan"</u>	15.01.1965	Semipalatinsk test site	Balapan, Well 1004	-178 m	140 kt	Thermonuclear		Development of nuclear explosive technologies for industrial purposes by the USSR Ministry of Medium Machine Building. The first nuclear test in a borehole. The first peaceful test and the first explosion to eject soil to study the possibility of creating an artificial reservoir by blocking the riverbed with an embankment dam. After filling a 430 m diameter funnel with water, Lake Chagan ("Atomic Lake") was formed.
232		04.02.1965	Semipalatinsk test site	Degelen, Adit A	-262 m	44 kt	-		
233		03.03.1965	Semipalatinsk test site	Degelen, Adit Zh-3	-	27 ct	-		
234		27.03.1965	Semipalatinsk test site	Degelen, Adit V-2P	-	0.06 kt	-		
235	"Butane-1", "Butane-2"	30.03.1965	Bashkir ASSR	Well 617, Well 618	-1340 m, -1375 m	2.3 kt, 2.3 kt	-	Group (x2)	An experimental industrial explosion in

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
									the interests of the USSR Ministry of Oil Industry and Geology. The first group nuclear explosion in two wells, the first nuclear explosion to intensify oil production.
236		11.05.1965	Semipalatinsk test site	Degelen, Adit A-P	-	14 kt	-		
237	"Butane"	10.06.1965	Bashkir ASSR	Well 622	-1350 m	7.8 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Oil Industry and Geology. Intensification of oil production
238		17.06.1965	Semipalatinsk test site	Degelen, Adit Zh-1	-	24 kt	-		
239		29.07.1965	Semipalatinsk test site	Degelen, Adit A-1Sh	-	1.1 kt	-		
240		17.09.1965	Semipalatinsk test site	Degelen, Adit 1	-	15 kt	-		
241		08.10.1965	Semipalatinsk test site	Degelen, Adit Z-1	-	29 kt	-		
242	"Sary-Uzen"	14.10.1965	Semipalatinsk test site	Sary-Uzen, Well 1003	-48 m	1.1 kt	-		The second nuclear explosion for emission for experimental modeling of the optimal emission coefficient, under the condition of ensuring the minimum removal of radioactive substances and excluding their fallout above background values outside the borders of the USSR. After the explosion, a funnel was formed with a diameter along the crest of the pile of 141 m, a height of the crest of the pile of 9 m and a depth from the crest of 29 m.
243		21.11.1965	Semipalatinsk test site	Degelen, Adit Zh-2	-	29 kt	-		
244		24.12.1965	Semipalatinsk test site	Degelen, Adit Z-3	-	6.7 kt	-		
245		13.02.1966	Semipalatinsk test site	Degelen, Adit E-1	-320 m	125 kt	-		

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
246		20.03.1966	Semipalatinsk test site	Degelen, Adit 11	-310 m	100 kt	-		
247		21.04.1966	Semipalatinsk test site	Degelen, Adit A-4P	-	22 kt	-		
248	"Halite"	22.04.1966	Azgir, Kazakh SSR	Well AI	-161 m	1.1 kt	-		Development of nuclear explosive technologies for industrial purposes by the USSR Ministry of Medium Machine Building. The first calibration nuclear explosion to create dry cavities in rock salt. The radius of the cavity is 14 m, the volume is 10,000 m ³ . The cavity filled with water after 7 days due to breakthroughs of aquifers. Drilled by 6 wells. An extractive hydraulic system "Erlift" was installed on the surface to lift the bottom sediment to the surface.
249		07.05.1966	Semipalatinsk test site	Degelen, Adit 25	-	4 ct	-		
250	"Probe"	29.06.1966	Semipalatinsk test site	Degelen, Adit Z-6	-	42 kt	-		Experiment on multiple neutron capture for the purpose of synthesizing transuranic elements. Starting isotopes U-238 and Am-243. Flux of $2.7 \cdot 10^{24}$ cm ⁻² achieved
251		21.07.1966	Semipalatinsk test site	Degelen, Adit 24	-	24 kt	-		
252		05.08.1966	Semipalatinsk test site	Degelen, Adit 17	-	32 kt	-		
253		19.08.1966	Semipalatinsk test site	Degelen, Adit Z-1P	-	10 kt	-		
254		07.09.1966	Semipalatinsk test site	Degelen, Adit Zh-1P	-	4.6 kt	-		
255	<u>Urta-Bulak</u>	30.09.1966	Bukhara region, Uzbek SSR, 80 km south of Bukhara	Well 1-s	-1532 m	30 kt	-		An experimental industrial explosion in the interests of the USSR Ministry of Geology. The first

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
									camouflage nuclear explosion to block gas fountain wells. It took 270 days to eliminate the fountain, after 3 unsuccessful years of work using other technologies
256		19.10.1966	Semipalatinsk test site	Degelen, Adit 13	-	55 kt	-		
257		10/27/1966	Novaya Zemlya Polygon	Matochkin Shar, Adit A-1	-700 m	700 kt	-		
258		10/27/1966	Novaya Zemlya Polygon	Matochkin Shar, Adit A-2	-	700 kt	-		
259		29.10.1966	Semipalatinsk test site	Degelen, Adit G	-	-	-		
260		11/19/1966	Semipalatinsk test site	Degelen, Adit Zh-3P	-	-	-		
261		03.12.1966	Semipalatinsk test site	Degelen, Adit 14	-	4.6 kt	-	Group (x2)	First test with "simultaneous" detonation of several charges in one adit
262		18.12.1966	Semipalatinsk test site	Sary-Uzen, Well 101	-460 m	100 kt	-		After the test, an abnormal radiation situation developed. 10% of the radioactive products of the explosion were released. The radioactive cloud rose to a height of 3 km. Part of the cloud crossed the border of the USSR.
263		30.01.1967	Semipalatinsk test site	Degelen, Adit 611	-	4.6 kt	-	Group (x2)	
264		26.02.1967	Semipalatinsk test site	Degelen, Adit 21	-	130 kt	-		
265		25.03.1967	Semipalatinsk test site	Degelen, Adit 19	-	18 ct	-	Group (x2)	
266		20.04.1967	Semipalatinsk test site	Degelen, Adit 25P	-	37 kt	-		
267		28.05.1967	Semipalatinsk test site	Degelen, Adit 11P	-	28 kt	-	Group (x2)	
268		29.06.1967	Semipalatinsk test site	Degelen, Adit 703	-	20 kt	-		
269		15.07.1967	Semipalatinsk test site	Degelen, Adit 506	-	23 kt	-		
270		04.08.1967	Semipalatinsk test site	Degelen, Adit 18	-	19 ct	-	Group (x2)	
271		02.09.1967	Semipalatinsk test site	Degelen, Adit 13P	-	0.7 kt	-		
272		16.09.1967	Semipalatinsk test site	Sary-Uzen, Well 102	-	16 kt	-		
273		22.09.1967	Semipalatinsk test site	Sary-Uzen, Well 105	-170 m	10 kt	-		

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
274	"Tavda"	06.10.1967	Tyumen region, RSFSR, 70 km northeast of Tyumen	Well	-	0.3 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Gas Industry. Creation of underground gas storage tanks
275		17.10.1967	Semipalatinsk test site	Degelen, Adit B	-	45 kt	-	Group (x2)	
276		21.10.1967	Novaya Zemlya Polygon	Matochkin Shar, Adit A-4, Adit A-5	-600 m, -500 m	260 kt	-	Group (x2)	The first group nuclear explosion in two adits.
277		10/30/1967	Semipalatinsk test site	Degelen, Adit 501	-	25 kt	-		
278		22.11.1967	Semipalatinsk test site	Sary-Uzen, Well 106	-	1.6 kt	-		
279		08.12.1967	Semipalatinsk test site	Degelen, Adit 507	-	19 ct	-		
280		07.01.1968	Semipalatinsk test site	Degelen, Adit 810	-	7.5 kt	-		
281		24.04.1968	Semipalatinsk test site	Degelen, Adit 505	-	6.2 kt	-		
282	"Pamuk"	21.05.1968	Kashkandarya region, Uzbek SSR, 70 km west of Karshi	Pamuk Field, Well	-2440 m	47 kt	-		Experimental industrial explosion in the interests of the USSR Ministry of Geology. Covering gas fountain wells. Fountain eliminated
283		23.05.1968	Semipalatinsk test site	Degelen, Adit 504	-	0.001 kt	-		
284		11.06.1968	Semipalatinsk test site	Degelen, Adit 605	-	15 kt	-		
285		19.06.1968	Semipalatinsk test site	Balapan, Well 1053	-	18 ct	-		
286	"Halite"	01.07.1968	Azgir, Kazakh SSR	Well A-II	-591 m	27 ct	-		Development of nuclear explosive technologies for industrial purposes by the USSR Ministry of Medium Machine Building. The first nuclear explosion to create cavities in rock salt. The radius of the cavity is 32 m, the volume is 125,000 m ³ . The cavity filled with water after 9 days. Two wells were drilled into the bottom for research
287		12.07.1968	Semipalatinsk test site	Degelen, Adit 608	-172 m	24 kt	-	Group (x2)	

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
288		20.08.1968	Semipalatinsk test site	Degelen, Adit A-7	-	4.6 kt	-	Group (x2)	
289		05.09.1968	Semipalatinsk test site	Degelen, Adit 509	-	32 kt	-		
290		29.09.1968	Semipalatinsk test site	Degelen, Adit E-2	-	60 kt	-		
291	<u>"Telkem-1"</u>	21.10.1968	Semipalatinsk test site	Telkem, Well 2308	-31.4 m	0.24 kt	-		Development of nuclear explosive technologies for industrial purposes by the USSR Ministry of Medium Machine Building. Third nuclear explosion for emission for modeling the optimal emission coefficient. After the explosion, a funnel with a diameter of 82-108 m along the crest of the pile, a height of the crest of the pile of 8-10 m and a depth from the crest of 31 m was formed.
292		29.10.1968	Semipalatinsk test site	Degelen, Adit 504P	-	-	-		The nuclear explosion cavity was opened in 1971, 457 days after the tests. The exposure dose rate inside the cavity reached 20-40 mR/h
293		07.11.1968	Novaya Zemlya Polygon	Matochkin Shar, Mount Sheludlivaya, Adit A-3	-1000 m	165 kt	-	Group (x3)	First group explosion in one adit, one charge failed to explode. The end box with the unexploded charge was opened. The charge was prepared for extraction. Work stopped. Further events are unknown.
294		09.11.1968	Semipalatinsk test site	Degelen, Adit 606	-	4 ct	-		
295	<u>"Telkem-2"</u>	12.11.1968	Semipalatinsk test site	Telkem-2, Well 2305, Well 2306, Well 2307	-31 m	0.24x3 ct	-	Group (x3)	Minsredmash USSR development of nuclear explosive technologies for industrial purposes. Fourth nuclear explosion for

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
									release for development of creation of channel type trench. Distance between boreholes for charges was 40 m. Data necessary for planning of works on creation of channel "Pechora-Kama" were received.
296		18.12.1968	Semipalatinsk test site	Degelen, Adit 508	-194 m	8.9 kt	-		
297		07.03.1969	Semipalatinsk test site	Degelen, Adit Zh-2P	-	49 kt	-		
298		04.04.1969	Semipalatinsk test site	Degelen, Adit 19P	-	-	-		
299		13.04.1969	Semipalatinsk test site	Degelen, Adit 24P	-	-	-		
300		16.05.1969	Semipalatinsk test site	Degelen, Adit 709	-	16 kt	-		
301		31.05.1969	Semipalatinsk test site	Sary-Uzen, Well 108	-	18 ct	-		
302		04.07.1969	Semipalatinsk test site	Degelen, Adit 710	-	15 kt	-	Group (x2)	
303		23.07.1969	Semipalatinsk test site	Degelen, Adit 801	-	16 kt	-		
304	"Griffin"	02.09.1969	Perm region, RSFSR, 10 km south of Osa	Osinskoye field, Well 1001	-1210 m	7.6 kt	-		Pilot-industrial explosion in the interests of the Ministry of Oil Industry and Geology and the Ministry of Gas Industry of the USSR. Intensification of oil and gas production
305	"Griffin"	08.09.1969	Perm region, RSFSR, 10 km south of Osa	Osinskoye field, Well 1002	-1210 m	7.6 kt	-		Pilot-industrial explosion in the interests of the Ministry of Oil Industry and Geology and the Ministry of Gas Industry of the USSR. Intensification of oil and gas production
306		11.09.1969	Semipalatinsk test site	Degelen, Adit 503	-	6.2 kt	-	Group (x2)	
307	"Takhta-Kugultinskoe"	26.09.1969	Stavropol Krai, RSFSR, 90 km north of Stavropol	Well	-725 m	10 kt	-		Pilot-industrial explosion in the interests of the Ministry of Oil Industry and Geology and the Ministry of Gas Industry of the USSR. Intensification

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
									of oil and gas production
308		01.10.1969	Semipalatinsk test site	Degelen, Adit 607	-	16 kt	-	Group (x2)	
309		14.10.1969	Novaya Zemlya Polygon	Matochkin Shar, Adits: A-7 and A-9	-500 m, -520 m	540 kt	-	Group (x3)	After the test, an abnormal radiation situation developed, associated with the release of radioactive gas and steam through the cracks, 80 test participants received a dose of about 40 roentgens, 344 people suffered from a lower dose
310		10/30/1969	Semipalatinsk test site	Degelen, Adit 506P	-	-	-		
311		27.11.1969	Semipalatinsk test site	Degelen, Adit 511	-	-	-		
312		11/30/1969	Semipalatinsk test site	Balapan, Well 1054	-	125 kt	-		
313	" <u>Sai-Utes-1</u> "	06.12.1969	Mangyshlak, Kazakh SSR	Well 2-T	-410 m	30 kt	-		
314		28.12.1969	Semipalatinsk test site	Sary-Uzen, Well 107	-	40 kt	-		
315		29.12.1969	Semipalatinsk test site	Degelen, Adit Sh-1	-	10 kt	-		
316		29.01.1970	Semipalatinsk test site	Degelen, Adit 802	-	42 kt	-	Group (x3)	
317		18.02.1970	Semipalatinsk test site	Degelen, Adit Sh-2	-	0.001 kt	-		
318		27.03.1970	Semipalatinsk test site	Degelen, Adit 610	-	6.5 kt	-		
319		27.05.1970	Semipalatinsk test site	Degelen, Adit Sh-3	-	0.9 kt	-		
320	"Sovkhoznoye" ("Magistral")	25.06.1970	Orenburg region, RSFSR, 65 km northeast of Orenburg	Orenburg gas and oil condensate field, Well 1T-2S	-702 m	2.3 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Gas Industry. The first explosion in a rock salt massif with the purpose of creating underground gas storage tanks. The cavity volume is 11,000 m3. The cavity is to be operated for 11 years. Mothballed in 1993
321		28.06.1970	Semipalatinsk test site	Degelen, Adit 510	-332 m	88 kt	-		
322		28.06.1970	Semipalatinsk test site	Degelen, Adit 705	-	-	-	Group (x2)	
323		21.07.1970	Semipalatinsk test site	Sary-Uzen, Well 104	-	23 kt	-		

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
324		24.07.1970	Semipalatinsk test site	Degelen, Adit 120	-	20 kt	-		
325		06.09.1970	Semipalatinsk test site	Degelen, Adit 502	-	-	-		
326		06.09.1970	Semipalatinsk test site	Degelen, Adit 8	-	34 kt	-		
327		14.10.1970	Novaya Zemlya Polygon	Matochkin Shar, Adit A-6	-1200 m	2200 kt	-	Group (x3)	
328		04.11.1970	Semipalatinsk test site	Sary-Uzen, Well 125	-	27 ct	-		
329	" <u>Sai-Utes-2</u> "	12.12.1970	Mangyshlak, Kazakh SSR	Well 6T	-740 m	80 kt	-		Development of nuclear explosive technologies for industrial purposes by the USSR Ministry of Medium Machine Building. Creation of reservoir craters and study of engineering seismology issues
330		17.12.1970	Semipalatinsk test site	Degelen, Adit 193	-	26 kt	-		
331	" <u>Sai-Utes-3</u> "	23.12.1970	Mangyshlak, Kazakh SSR	Well 1-T	-500 m	75 kt	-		Development of nuclear explosive technologies for industrial purposes by the USSR Ministry of Medium Machine Building. Creation of reservoir craters and study of engineering seismology issues
332		29.01.1971	Semipalatinsk test site	Degelen, Adit 114	-	1.8 kt	-		
333		22.03.1971	Semipalatinsk test site	Degelen, Adit 510P	-	67 kt	-		
334		22.03.1971	Semipalatinsk test site	Degelen, Adit 807	-	-	-		
335	<u>Project "Taiga"</u>	23.03.1971	Perm region, RSFSR, 100 km north of Krasnovishersk	Well 1B, Well 2B, Well 3B	-128 m	45 kt	Thermonuclear	Group (x3)	Fifth nuclear explosion for release. Pilot-industrial explosion in the interests of the USSR Ministry of Land Reclamation and Water Management. Creation of a trench-excavation in alluvial soils for the purpose of constructing a section of the

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
									Pechora-Kama Canal
336		09.04.1971	Semipalatinsk test site	Degelen, Adit 148/1	-	0.23 kt	-		Development of technology for self-burial of radioactive explosion products
337		25.04.1971	Semipalatinsk test site	Degelen, Adit 706	-	90 kt	-		
338		25.05.1971	Semipalatinsk test site	Degelen, Adit 119	-	9 ct	-		
339		06.06.1971	Semipalatinsk test site	Sary-Uzen, Well 110	-	16 kt	-		
340		19.06.1971	Semipalatinsk test site	Sary-Uzen, Well 129	-	35 kt	-		
341		30.06.1971	Semipalatinsk test site	Balapan, Well 1056	-	5 kt	-		
342	"Globus-4"	02.07.1971	Komi ASSR, RSFSR, 25 km southwest of Vorkuta	Well GB-4	-542 m	2.3 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Geology. <u>Deep seismic sounding of the earth's crust</u> for the purpose of searching for structures promising for mineral exploration
343	"Globus-3"	10.07.1971	Komi ASSR, RSFSR, 130 km southwest of the city of Pechory, 20 km east of the Lemyu railway station	Well GB-3	-465 m	2.3 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Geology. Deep seismic sounding of the earth's crust for the purpose of searching for structures promising for mineral exploration
344	" <u>Globus-1</u> "	19.09.1971	Ivanovo region, RSFSR, 4 km from the village of Galkino, 40 km northeast of the city of Kineshma	Well GB-1	-610 m	2.3 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Geology. Deep seismic sounding of the earth's crust in order to search for structures promising for mineral exploration. After the test, an abnormal situation developed associated with a breakthrough of inert radioactive gases from the

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
									wellhead section. After 20 days, the gas release ceased
345		27.09.1971	Novaya Zemlya Polygon	Matochkin Shar, Adit A-8	-1200 m	2450 kt	-	Group (x4)	
346	"Globus-2"	04.10.1971	Arkhangelsk region, RSFSR, 80 km northeast of Kotlas (160 km northeast of the city of Veliky Ustyug)	Well GB-2	-595 m	2.3 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Geology. Deep seismic sounding of the earth's crust for the purpose of searching for structures promising for mineral exploration
347		09.10.1971	Semipalatinsk test site	Sary-Uzen, Well 111	-	12 kt	-		
348		21.10.1971	Semipalatinsk test site	Sary-Uzen, Well 127	-	23 kt	-		
349	"Sapphire-1" ("Dedurovka")	22.10.1971	Orenburg region, RSFSR	Orenburg gas condensate field. Well E-2	-1140 m	15 kt	-		Development of nuclear explosive technologies for industrial purposes by the USSR Ministry of Medium Machine Building. Creation of an underground cavity in a rock salt massif
350		29.11.1971	Semipalatinsk test site	Degelen, Adit 105	-	28 kt	-	Group (x2)	
351		15.12.1971	Semipalatinsk test site	Degelen, Adit 157	-	50 kt	-		
352	"Halite"	22.12.1971	Azgir, Guryev region, Kazakh SSR	Well A-III	-986 m	64 kt	Thermonuclear		Development of nuclear explosive technologies for industrial purposes by the USSR Ministry of Medium Machine Building. Creation of dry underground cavities in a rock salt massif. Cavity radius 39 m, volume 215,000 m ³ . In addition, experimental production of Pa-231 (0.5 kg) and U-233 (2.5 kg) was carried out on the starting isotope Th-232 using the neutron

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
									separation method.
353		12/30/1971	Semipalatinsk test site	Degelen, Adit 809	-	50 kt	-		
354		12/30/1971	Semipalatinsk test site	Degelen, Adit 609	-	-	-		
355		10.02.1972	Semipalatinsk test site	Balapan, Well 1007	-	16 kt	-		
356		10.03.1972	Semipalatinsk test site	Degelen, Adit 201	-	28 kt	-	Group (x2)	
357		28.03.1972	Semipalatinsk test site	Degelen, Adit 191	-	6 ct	-	Group (x3)	
358	"Crater"	11.04.1972	Mary region, Turkmen SSR, 30 km southeast of Mary	Mayskoye field, Well	-1720 m	15 kt	-		Experimental industrial explosion in the interests of the USSR Ministry of Geology. Covering gas fountain wells. Fountain eliminated
359		20.04.1972	Semipalatinsk test site	Degelen, Adit 505P	-	0.001 kt	-		
360		07.06.1972	Semipalatinsk test site	Degelen, Adit 110	-	-	-		
361		07.06.1972	Semipalatinsk test site	Degelen, Adit 601	-	25 kt	-		
362		06.07.1972	Semipalatinsk test site	Degelen, Adit 157-M	-	1.5 kt	-		
363	" Torch "	09.07.1972	Kharkov region, Ukrainian SSR, 20 km north of Krasnograd	Krestishchi deposit, Well	-2483 m	3.8 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Geology. Shutting off gas fountain wells
364		27.07.1972	Novaya Zemlya Polygon	-, Well U-3	-	10 kt	-		
365		16.08.1972	Semipalatinsk test site	Degelen, Adit 708	-	8 ct	-		
366	"Region-3"	20.08.1972	Kazakh SSR	Well R-3	-489 m	6.6 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Geology. Deep seismic sounding of the earth's crust for the purpose of searching for structures promising for mineral exploration
367		26.08.1972	Semipalatinsk test site	Sary-Uzen, Well 132	-	21 kt	-		
368		28.08.1972	Novaya Zemlya Polygon	Matochkin Shar, Adit A-16	-900 m	1120 kt	-	Group (x4)	
369		02.09.1972	Semipalatinsk test site	Sary-Uzen, Well 128	-	2 ct	-		
370	"Dnepr-1"	04.09.1972	Murmansk region, RSFSR, 20-21 km northeast of Kirovsk	Gallery	-130 m	2.1 kt	-		Pilot-industrial explosion in the interests of

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
									the USSR Ministry of Mineral Fertilizers. Crushing of ore
371	"Region-1"	21.09.1972	Orenburg region, RSFSR, 70 km southwest of Buzuluk	Well R-1	-485 m	2.3 kt			Pilot-industrial explosion in the interests of the USSR Ministry of Geology. Deep seismic sounding of the earth's crust for the purpose of searching for structures promising for mineral exploration
372	"Region-4"	03.10.1972	Kalmyk ASSR, RSFSR, 80 km northeast of Elista	Well R-4	-485 m	6.6 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Geology. Deep seismic sounding of the earth's crust for the purpose of searching for structures promising for mineral exploration
373		02.11.1972	Semipalatinsk test site	Balapan, Well 1061	-	165 kt	-		The most powerful underground test at the Semipalatinsk test site
374	"Region-2"	24.11.1972	Orenburg region, RSFSR, 70 km southwest of the city of Buzuluk	Well R-2	-675 m	2.3 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Geology. Deep seismic sounding of the earth's crust for the purpose of searching for structures promising for mineral exploration
375	"Region-5"	24.11.1972	Kazakh SSR	Well R-5	-423 m	6.6 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Geology. Deep seismic sounding of the earth's crust for the purpose of searching for structures promising for mineral exploration

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
376		10.12.1972	Semipalatinsk test site	Degelen, Adit 3-2, Adit 140	-	58 kt	-	Group (x2)	
377		10.12.1972	Semipalatinsk test site	Balapan, Well 1204	-378 m	140 kt	-		
378		28.12.1972	Semipalatinsk test site	Degelen, Adit 25PP	-	-	-		
379		16.02.1973	Semipalatinsk test site	Degelen, Adit 113	-	42 kt	-		
380		19.04.1973	Semipalatinsk test site	Sary-Uzen, Well 131	-	21 kt	-		
381		10.07.1973	Semipalatinsk test site	Degelen, Adit 806	-	20 kt	-	Group (x2)	
382		23.07.1973	Semipalatinsk test site	Balapan, Well 1066	-465 m	212 kt	-		
383	"Meridian-3"	15.08.1973	Kazakh SSR	Well MN-3	-610 m	6.3 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Oil Industry and Geology. Intensification of oil production
384	"Meridian-1"	28.08.1973	Kazakh SSR	Well MN-1	-395 m	6.3 kt	-		
385		12.09.1973	Novaya Zemlya Polygon	Matochkin Shar, Adit V-1	-1500 m	3800 kt	-	Group (x4)	The most powerful underground group nuclear explosion. The most powerful underground nuclear test at the Novaya Zemlya test site
386	"Meridian-2"	19.09.1973	Kazakh SSR	Well MN-2	-400 m	6.3 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Oil Industry and Geology. Intensification of oil production
387		20.09.1973	Semipalatinsk test site	Balapan, Well 1267	-	0.001 kt	-		
388		27.09.1973	Novaya Zemlya Polygon	-, Well U-4	-880 m	180 kt	-		
389	"Sapphire-2" ("Dedurovka")	30.09.1973	Orenburg region, RSFSR	Well E-3	-1145 m	10 kt	-		Development of nuclear explosive technologies for industrial purposes by the USSR Ministry of Medium Machine Building. Creation of an underground cavity in a rock salt massif
390	"Kama-2"	26.10.1973	Bashkir ASSR, RSFSR, 22 km west of Sterlitamak	Well	-2030 m	15 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Oil Refining and

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
									Petrochemical Industry. Burial in deep geological formations of biologically hazardous industrial wastewater from petrochemical production at the Sterlitamak Soda-Cement Plant. In 1976, the underground burial site in cavities from the Kama-1 and Kama-2 explosions was put into operation. Over 14 years, 20 million m3 of industrial wastewater containing 1,000 tons of solid particles were pumped in
391		26.10.1973	Semipalatinsk test site	Degelen, Adit 205	-	15 kt	-		
392		10/27/1973	Novaya Zemlya Polygon	-, Well U-1	-1900 m	4000 kt	-		
393		04.11.1973	Semipalatinsk test site	Balapan, Well 1069	-	-	-		
394		14.12.1973	Semipalatinsk test site	Balapan, Well 1064	-	80 kt	-		
395		31.12.1973	Semipalatinsk test site	Degelen, Adit 21P	-157 m	0.5 kt	-		
396		30.01.1974	Semipalatinsk test site	Degelen, Adit 603	-	30 kt	-	Group (x3)	
397		28.02.1974	Semipalatinsk test site	Degelen, Adit 110P	-	0.001 kt	-		
398		16.04.1974	Semipalatinsk test site	Balapan, Well 1301	-	1 ct	-		
399		16.05.1974	Semipalatinsk test site	Degelen, Adit 176	-	18 ct	-		
400		31.05.1974	Semipalatinsk test site	Balapan, Well 1207	-316 m	71 kt	-		
401		25.06.1974	Semipalatinsk test site	Degelen, Adit Z-1PP	-	3.5 kt	-		
402	"Kama-1"	08.07.1974	Bashkir ASSR, RSFSR, 22 km west of Sterlitamak	Well	-2130 m	10 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Oil Refining and Petrochemical Industry. Burial in deep geological formations of biologically hazardous industrial wastewater from petrochemical production at

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
									the Sterlitamak Soda-Cement Plant. In 1976, the underground burial site in cavities from the Kama-1 and Kama-2 explosions was put into operation. Over 14 years, 20 million m3 of industrial wastewater containing 1,000 tons of solid particles were pumped in
403		10.07.1974	Semipalatinsk test site	Degelen, Adit 195	-	18 ct	-		
404		29.07.1974	Semipalatinsk test site	Balapan, Well 1050	-	-	-		
405	"Horizon-2"	14.08.1974	Tyumen region, RSFSR	Well G-2	-534 m	7.6 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Geology. Deep seismic sounding of the earth's crust for the purpose of searching for structures promising for mineral exploration
406	"Horizon-1"	29.08.1974	Komi ASSR, RSFSR	Well G-1	-583 m	7.6 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Geology. Deep seismic sounding of the earth's crust for the purpose of searching for structures promising for mineral exploration
407		29.08.1974	Novaya Zemlya Polygon	Matochkin Shar, Adit A-11	-1000 m	1200 kt	-	Group (x5)	
408		13.09.1974	Semipalatinsk test site	Degelen, Adit 179	-	14 kt	-		
409	"Crystal"	02.10.1974	Yakut ASSR, RSFSR, 70 km northeast of the village of Aikhal, 2 km from the village of Udachny	Well	-98 m	1.7 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Non-Ferrous Metallurgy. Creation of tailings dams by loosening rocks
410	"Argon-3"	16.10.1974	Semipalatinsk test site	Balapan, Well 1005	-	19 ct	-		

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
411		02.11.1974	Novaya Zemlya Polygon	-, Well U-5N	-1500 m	2300 kt	-		
412		28.11.1974	Semipalatinsk test site	Sary-Uzen, Well 215	-	0.01 kt	-		
413	"Lapis lazuli"	07.12.1974	Semipalatinsk test site	Sary-Uzen, Murzhik, Well R-1	-75 m	1.7 kt	-		Development of a method for creating a discharge dam
414		16.12.1974	Semipalatinsk test site	Degelen, Adit 709P	-	6.7 kt	-		
415		16.12.1974	Semipalatinsk test site	Degelen, Adit 148/5	-126 m	3.8 kt	-		Development of technology for self-burial of radioactive explosion products in a separate compartment. In the summer of 1975, the boiler cavity of the nuclear explosion was opened by a bypass, and epicentral drilling of 20 boreholes was carried out to survey the burial chamber. Survey result: more than 90% of the explosion products were concentrated in the burial compartment. The exposure dose rate in the burial chamber was 20-1000 mR/h
416		27.12.1974	Semipalatinsk test site	Balapan, Well 1058	-	36 kt	-		
417		20.02.1975	Semipalatinsk test site	Degelen, Adit 163	-	-	-	Group (x3)	
418		20.02.1975	Semipalatinsk test site	Degelen, Adit 156	-	55 kt	-		
419		11.03.1975	Semipalatinsk test site	Degelen, Adit 101	-	24 kt	-		
420	"Halite"	25.04.1975	Azgir, Kazakh SSR	Well A-II-2	-583 m	0.35 kt	-		Development of nuclear explosive technologies for industrial purposes by the USSR Ministry of Medium Machine Building. Repeated explosion in a water-filled cavity in rock salt formed during the explosion of "Halite" (A-II). The repeated explosion was carried out to

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
									accumulate actinides in the bottom sediment
421		27.04.1975	Semipalatinsk test site	Balapan, Well 1205	-	29 kt	-		
422		08.06.1975	Semipalatinsk test site	Degelen, Adit 165	-	32 kt	-		
423		30.06.1975	Semipalatinsk test site	Balapan, Well A	-	8 ct	-		
424		15.07.1975	Semipalatinsk test site	Degelen, Adit 133	-	-	-	Group (x2)	
425		07.08.1975	Semipalatinsk test site	Degelen, Adit 122, Adit 123	-	14 kt	-	Group (x2)	
426	"Horizon-4"	12.08.1975	Yakut ASSR, RSFSR, 120 km southwest of Tiksi	Well G-4	-700 m	7.6 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Geology. Deep seismic sounding of the earth's crust for the purpose of searching for structures promising for mineral exploration
427		23.08.1975	Novaya Zemlya Polygon	Matochkin Shar, Adit A-10	-700 m	1100 kt	-	Group (x8)	The first group nuclear explosion with the maximum number of charges (8) in one adit at the Novaya Zemlya test site and in the USSR.
428	"Horizon-3"	29.09.1975	Krasnoyarsk region, RSFSR	Well G-3	-830	7.6 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Geology. Deep seismic sounding of the earth's crust for the purpose of searching for structures promising for mineral exploration
429		05.10.1975	Semipalatinsk test site	Degelen, Adit 192	-	0.2 kt	-		
430		18.10.1975	Novaya Zemlya Polygon	-, Well U-6N	-1100 m	600 kt	-	Group (x2)	The first group nuclear explosion in one well at the Novaya Zemlya test site.
431		18.10.1975	Novaya Zemlya Polygon	-, Well U-7	-	600 kt	-		
432		21.10.1975	Novaya Zemlya Polygon	Matochkin Shar, Adit A-12	-700 m	1300 kt	-	Group (x5)	
433		29.10.1975	Semipalatinsk test site	Balapan, Well 1206	-	36 kt	-		

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
434		13.12.1975	Semipalatinsk test site	Degelen, Adit 604	-	8 ct	-		
435		25.12.1975	Semipalatinsk test site	Balapan, Well 1067	-	59 kt	-		
436		15.01.1976	Semipalatinsk test site	Degelen, Adit 115	-	13 kt	-		
437		17.03.1976	Semipalatinsk test site	Degelen, Adit 608P	-	-	-		
438	"Halite"	29.03.1976	Azgir, Kazakh SSR	Well A-III-2	-986 m	10 kt	-		Development of nuclear explosive technologies for industrial purposes by the USSR Ministry of Medium Machine Building. Repeated explosion in a dry cavity in rock salt formed during the explosion of "Halite" (A-III)
439		10.04.1976	Semipalatinsk test site	Degelen, Adit 609P	-130 m	0.1 kt	-		
440		21.04.1976	Semipalatinsk test site	Balapan, Well 1201	-	7 ct	-		
441		21.04.1976	Semipalatinsk test site	Degelen, Adit 101P	-	7 ct	-		
442		19.05.1976	Semipalatinsk test site	Degelen, Adit 163P	-	3.7 kt	-		
443		09.06.1976	Semipalatinsk test site	Balapan, Well 1075	-	10 kt	-		
444		04.07.1976	Semipalatinsk test site	Balapan, Well 1062	-	65 kt	-		
445		23.07.1976	Semipalatinsk test site	Degelen, Adit 185	-	7 ct	-		
446	"Halite"	29.07.1976	Azgir, Kazakh SSR	Well A-IV	-997 m	58 kt	-		Development of nuclear explosive technologies for industrial purposes by the USSR Ministry of Medium Machine Building. An underground cavity was created in a rock salt massif. The cavity radius was 38 m, the volume was 200,000 m3. The goal was to produce plutonium using the explosion method. 15 kg of Pu-239 were produced.
447		04.08.1976	Semipalatinsk test site	Sary-Uzen, Well 133	-	0.9 kt	-		

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
448		28.08.1976	Semipalatinsk test site	Balapan, Well 1202	-	53 kt	-		
449		29.09.1976	Novaya Zemlya Polygon	Matochkin Shar, Adit A-14	-400 m	130 kt	-	Group (x2)	
450		20.10.1976	Novaya Zemlya Polygon	Matochkin Shar, Adit A-15	-300 m	13 kt	-	Group (x4)	
451		10/30/1976	Semipalatinsk test site	Degelen, Adit 143	-	2.8 kt	-		
452	"Oka"	05.11.1976	Yakut ASSR, RSFSR	Well 42	-1525 m	15 kt	-		Pilot-industrial explosion in the interests of the Ministry of Oil Industry and Geology and the Ministry of Gas Industry of the USSR. Intensification of oil and gas production
453		23.11.1976	Semipalatinsk test site	Balapan, Well 1207bis	-	74 kt	-		
454		07.12.1976	Semipalatinsk test site	Balapan, Well 1304	-	54 kt	-	Group (x2)	The first group nuclear explosion in one well at the Semipalatinsk test site.
455		07.12.1976	Semipalatinsk test site	Balapan, Well 1209	-	95 kt	-		
456		12/30/1976	Semipalatinsk test site	Degelen, Adit 706P	-	10 kt	-	Group (x2)	
457		29.03.1977	Semipalatinsk test site	Degelen, Adit 707	-	25 kt		Group (x3)	
458		29.03.1977	Semipalatinsk test site	Well 130	-	24 kt	-		
459		25.04.1977	Semipalatinsk test site	Degelen, Adit 604P	-	10 kt	-		
460		29.05.1977	Semipalatinsk test site	Balapan, Well 1400	-	44 kt	-		
461		29.06.1977	Semipalatinsk test site	Balapan, Well 1080	-	9 ct	-		
462	"Meteorite-2"	26.07.1977	Krasnoyarsk region, RSFSR	Well M-2	-880 m	15 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Geology. Deep seismic sounding of the earth's crust for the purpose of searching for structures promising for mineral exploration
463		30.07.1977	Semipalatinsk test site	Degelen, Adit 175	-	11 ct	-	Group (x2)	
464	"Meteorite-5"	11.08.1977	Chita region, RSFSR	Well M-5	-494 m	8.5 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Geology. Deep seismic sounding of the earth's

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
									crust for the purpose of searching for structures promising for mineral exploration
465		17.08.1977	Semipalatinsk test site	Degelen, Adit 111	-	8 ct	-		
466	"Meteorite-3"	21.08.77	Krasnoyarsk region, RSFSR	Well M-3	-600 m	8.5 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Geology. Deep seismic sounding of the earth's crust for the purpose of searching for structures promising for mineral exploration
467		01.09.1977	Novaya Zemlya Polygon	Matochkin Shar, Adit A-17	-600 m	120 kt	-	Group (x4)	
468		05.09.1977	Semipalatinsk test site	Balapan, Well 1079	-	78 kt	-	Group (x2)	
469	"Meteorite-4"	10.09.1977	Irkutsk region, RSFSR, 12 km northeast of the village of Ust-Kut	Well M-4	-540 m	7.6 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Geology. Deep seismic sounding of the earth's crust for the purpose of searching for structures promising for mineral exploration
470	"Halite"	30.09.1977	Azgir, Kazakh SSR	Well A-V	-1491 m	10 kt	-		Development of nuclear explosive technologies for industrial purposes by the USSR Ministry of Medium Machine Building. An underground cavity was created in a rock salt massif. The cavity radius is 15 m, the volume is 9,500 m3. The goal is to assess the convergence (reduction) of the cavity at great depth under the influence of lithostatic pressure

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
471		09.10.1977	Novaya Zemlya Polygon	Matochkin Shar, Adit A-7P	-160 m	5 kt	-		
472	"Halite"	14.10.1977	Azgir, Kazakh SSR	Well A-II-3	-582 m	0.1 kt	-		Development of nuclear explosive technologies for industrial purposes by the USSR Ministry of Medium Machine Building. Second repeat explosion in a water-filled cavity in rock salt formed during the explosion "Halite" (A-II). The repeat explosion was carried out to accumulate actinides in the bottom sediment
473		10/29/1977	Semipalatinsk test site	Degelen, Adit 136	-	42 kt	-	Group (x2)	
474		10/29/1977	Semipalatinsk test site	Balapan, Well 1214	-	50 kt	-		
475	"Halite"	10/30/1977	Azgir, Kazakh SSR	Well A-II-4	-582 m	0.01 kt	-		Development of nuclear explosive technologies for industrial purposes by the USSR Ministry of Medium Machine Building. Third repeat explosion in a water-filled cavity in rock salt formed during the explosion "Halite" (A-II). The repeat explosion was carried out to accumulate actinides in the bottom sediment
476		12.11.1977	Semipalatinsk test site	Balapan, Well 1073	-	-	-		
477		27.11.1977	Semipalatinsk test site	Degelen, Adit 18P	-	-	-		
478		11/30/1977	Semipalatinsk test site	Balapan, Deep Well	-	70 kt	-	Group (x2)	
479		26.12.1977	Semipalatinsk test site	Degelen, Adit 803	-	-	-		
480		26.12.1977	Semipalatinsk test site	Degelen, Adit 123P	-	6 ct	-	Group (x4)	
481		19.03.1978	Semipalatinsk test site	Sary-Uzen, Well 2691	-	13 kt	-		
482		26.03.1978	Semipalatinsk test site	Degelen, Adit 701	-260 m	20 kt		Group (x2)	

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
483		22.04.1978	Semipalatinsk test site	Degelen, Adit 204	-	20 kt	-	Group (x3)	
484		22.04.1978	Semipalatinsk test site	Degelen, Adit 185P	-	0.001 kt	-		
485		29.05.1978	Semipalatinsk test site	Degelen, Adit 133P	-	3 ct	-		
486		02.06.1978	Semipalatinsk test site	Degelen, Adit 185PP	-	0.001 kt	-		
487		11.06.1978	Semipalatinsk test site	Balapan, Well 1010	-	58 kt	-		
488		05.07.1978	Semipalatinsk test site	Balapan, Well 1077	-	87 kt	-		
489		28.07.1978	Semipalatinsk test site	Degelen, Adit 104	-	60 kt	-	Group (x5)	Group nuclear explosion with the maximum number of charges (5) at the Semipalatinsk test site.
490	"Kraton-4"	09.08.1978	Yakut ASSR, RSFSR, 90 km northwest of the village of Sangar	Well KR-4	-567 m	22 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Geology. Deep seismic sounding of the earth's crust for the purpose of searching for structures promising for mineral exploration
491		10.08.1978	Novaya Zemlya Polygon	Matochkin Shar, Adit A-18	-500 m	180 kt	-	Group (x6)	
492	"Kraton-3"	24.08.1978	Yakut ASSR, RSFSR, 50 km from the village of Aikhal	Well KR-3	-577 m	22 kt	-		A pilot industrial explosion in the interests of the USSR Ministry of Geology. Deep seismic probing of the earth's crust in order to search for structures promising for mineral exploration (diamond exploration). After the explosion, an abnormal situation developed: the concrete plug covering the wellhead was destroyed by the radioactive gases that broke through. The only peaceful nuclear explosion that resulted in human casualties. One worker

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
									died from overexposure almost immediately, another, several years later
493		29.08.1978	Semipalatinsk test site	Degelen, Adit 107	-	14 kt, - kt, 0.001 kt	-	Group (x3)	
494		29.08.1978	Semipalatinsk test site	Balapan, Well 1228	-	119 kt	-		
495	"Halite"	12.09.1978	Azgir, Kazakh SSR	Well A-II-5	-584 m	0.08 kt	-		Development of nuclear explosive technologies for industrial purposes by the USSR Ministry of Medium Machine Building. The fourth repeated explosion in a water-filled cavity in rock salt formed during the explosion "Halite" (A-II). The repeated explosion was carried out to accumulate actinides in the bottom sediment
496		15.09.1978	Semipalatinsk test site	Balapan, Well 1211	-	81 kt	-		
497		20.09.1978	Semipalatinsk test site	Degelen, Adit 605P	-	1.1 kt	-		
498	"Kraton-2"	21.09.1978	Krasnoyarsk Krai, RSFSR, 95 km southwest of Igarka	Well KR-2	-886 m	15 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Geology. Deep seismic sounding of the earth's crust for the purpose of searching for structures promising for mineral exploration
499		27.09.1978	Novaya Zemlya Polygon	Matochkin Shar, Adit A-19	-450 m	60 kt	-	Group (x7)	
500	"Vyatka"	08.10.1978	Yakut ASSR, RSFSR, 120 km southwest of Mirny	Well 43	-1545 m	15 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Oil Industry and Geology. Intensification of oil production
501		15.10.1978	Semipalatinsk test site	Degelen, Adit 200ASM	-	12 kt	-		
502	"Halite"	17.10.1978	Azgir, Kazakh SSR	Well A-VII	-986 m, -1041 m	total 73 kt	-	Group (x2)	Development of nuclear explosive

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
									technologies for industrial purposes by the USSR Ministry of Medium Machine Building. The first group nuclear explosion at the Azgir site. Creation of underground cavities in a rock salt massif. Free total volume of cavities 210,000 m3
503	"Kraton-1"	17.10.1978	Tyumen region, RSFSR	Well KR-1	-593 m	22 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Geology. Deep seismic sounding of the earth's crust for the purpose of searching for structures promising for mineral exploration
504		10/31/1978	Semipalatinsk test site	Degelen, Adit 194	-	16 kt	-		
505		04.11.1978	Semipalatinsk test site	Balapan, Well 1302	-	44 kt	-	Group (x2)	
506		29.11.1978	Semipalatinsk test site	Balapan, Well 1222	-	101 kt	-	Group (x2)	
507		29.11.1978	Semipalatinsk test site	Degelen, Adit 162	-	110 kt	-		
508	"Halite"	11/30/1978	Azgir, Kazakh SSR	Well A-II-6	-585 m	0.06 kt	-		Development of nuclear explosive technologies for industrial purposes by the USSR Ministry of Medium Machine Building. Fifth repeated explosion in a water-filled cavity in rock salt formed during the explosion "Halite" (A-II). The repeated explosion was carried out to accumulate actinides in the bottom sediment
509		14.12.1978	Semipalatinsk test site	Degelen, Adit 113P	-	4 ct	-		
510	"Halite"	18.12.1978	Azgir, Kazakh SSR	Well A-IX	-630 m	103 kt	-		Development of nuclear explosive technologies

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
									for industrial purposes by the USSR Ministry of Medium Machine Building. Explosion in suprasalt clays with formation of a collapse funnel
511		20.12.1978	Semipalatinsk test site	Degelen, Adit 803P	-	3.5 kt	-		
512	"Halite"	10.01.1979	Azgir, Kazakh SSR	Well A-II-7	-581 m	0.5 kt	-		Development of nuclear explosive technologies for industrial purposes by the USSR Ministry of Medium Machine Building. The sixth repeated explosion in a water-filled cavity in rock salt formed during the explosion of "Halite" (A-II). The repeated explosion was carried out to accumulate actinides in the bottom sediment
513	"Halite"	17.01.1979	Azgir, Kazakh SSR	Well A-VIII	-930 m, 1004 m	total 65 kt	-	Group (x2)	Development of nuclear explosive technologies for industrial purposes by the USSR Ministry of Medium Machine Building. Creation of underground cavities in a rock salt massif. Free total volume of cavities 240,000 m3
514		01.02.1979	Semipalatinsk test site	Balapan, Well 1006	-	18 ct	-		
515		16.02.1979	Semipalatinsk test site	Sary-Uzen, Well 109, Well 2803	-	23 kt	-	Group (x2)	
516		23.03.1979	Semipalatinsk test site	Degelen, Adit 115P	-	0.001 kt	-		
517		10.04.1979	Semipalatinsk test site	Degelen, Adit 115PP	-	0.001 kt	-		
518		06.05.1979	Semipalatinsk test site	Degelen, Adit 701P	-	15 kt	-	Group (x2)	
519		31.05.1979	Semipalatinsk test site	Degelen, Adit 141, Adit 136P	-	17 ct	-	Group (x4)	
520		12.06.1979	Semipalatinsk test site	Degelen, Adit 115PPP	-	0.001 kt	-		

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
521		23.06.1979	Semipalatinsk test site	Balapan, Well 1223	-	149 kt	-		
522		07.07.1979	Semipalatinsk test site	Balapan, Well 1225	-	97 kt	-	Group (x2)	
523	"Halite"	14.07.1979	Azgir, Kazakh SSR	Well A-XI	-849 m, -917 m, -983 m	total 21 kt	-	Group (x3)	Development of nuclear explosive technologies for industrial purposes by the USSR Ministry of Medium Machine Building. Creation of underground cavities in a rock salt massif. Free total volume of cavities 100,000 m3
524		18.07.1979	Semipalatinsk test site	Sary-Uzen, Well 2613	-	12 kt	-		
525		18.07.1979	Semipalatinsk test site	Degelen, Adit 195P	-	14 kt	-		
526		04.08.1979	Semipalatinsk test site	Balapan, Well 1085	-	126 kt	-	Group (x2)	
527	"Kimberlite-4"	12.08.1979	Yakut ASSR, RSFSR, 130 km southwest of Verkhnevilyuysk	Well KM-4	-982 m	8.5 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Geology. Deep seismic sounding of the earth's crust for the purpose of searching for structures promising for mineral exploration
528		18.08.1979	Semipalatinsk test site	Balapan, Well 1226	-	150 kt	-	Group (x2)	
529	"Kimberlite-3"	06.09.1979	Krasnoyarsk region, RSFSR	Well KM-3	-599 m	8.5 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Geology. Deep seismic sounding of the earth's crust for the purpose of searching for structures promising for mineral exploration
530	" <u>Cleavage</u> "	16.09.1979	Yunokommunarovsk, Yenakiyevo City Council, Ukrainian SSR	eastern wing of the Yunkom mine of the Ordzhonikidzeugol production association	-903 m	0.3 kt			Pilot industrial explosion in the interests of the USSR Ministry of Coal Industry. Prevention of sudden emissions of coal dust and methane

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
531		24.09.1979	Novaya Zemlya Polygon	Matochkin Shar, Adit A-32	-500 m	130 kt	-		
532		27.09.1979	Semipalatinsk test site	Degelen, Adit 175P	-	1.6 kt	-		
533	"Kimberlite-1"	04.10.1979	Tyumen region, RSFSR	Well KM-1	-837 m	22 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Geology. Deep seismic sounding of the earth's crust for the purpose of searching for structures promising for mineral exploration
534	"Sheksna"	08.10.1979	Yakut ASSR, RSFSR	Well 47	-1550 m	15 kt	-		Pilot-industrial explosion in the interests of the Ministry of Oil Industry and Geology and the Ministry of Gas Industry of the USSR. Intensification of oil and gas production
535		18.10.1979	Semipalatinsk test site	Degelen, Adit 128	-	15 kt	-	Group (x2)	
536		18.10.1979	Novaya Zemlya Polygon	Matochkin Shar, Adit A-20	-500 m	150 kt	-	Group (x4)	
537	"Halite"	24.10.1979	Azgir, Kazakh SSR	Well A-X	-917 m, 980 m	total 33 kt	-	Group (x2)	Development of nuclear explosive technologies for industrial purposes by the USSR Ministry of Medium Machine Building. Creation of underground cavities in a rock salt massif. Free total volume of cavities 120,000 m3
538		28.10.1979	Semipalatinsk test site	Balapan, Well 1224	-	120 kt	-	Group (x2)	
539		11/30/1979	Semipalatinsk test site	Degelen, Adit 192P	-	1.6 kt	-		
540		02.12.1979	Semipalatinsk test site	Balapan, Well 1309	-	93 kt	-	Group (x2)	
541		21.12.1979	Semipalatinsk test site	Degelen, Adit 802P	-	3,6 kt	-		
542		23.12.1979	Semipalatinsk test site	Balapan, Deep Well-1	-	137 kt	-	Group (x2)	
543		14.03.1980	Semipalatinsk test site	Degelen, Adit 603P	-	0.001 kt	-		
544		04.04.1980	Semipalatinsk test site	Sary-Uzen, Well 126	-	6 ct	-		

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
545		10.04.1980	Semipalatinsk test site	Degelen, Adit 181	-	8 ct	-	Group (x2)	
546		25.04.1980	Semipalatinsk test site	Balapan, Well 1071	-	19 ct	-	Group (x2)	
547		22.05.1980	Semipalatinsk test site	Degelen, Adit 173	-	35 kt	-	Group (x3)	
548		12.06.1980	Semipalatinsk test site	Balapan, Well 1083	-	37 kt	-		
549	"Butane"	16.06.1980	Bashkir ASSR, RSFSR, 40 km east of the city of Meleuz	Grachevskoye oil field, Well 1	-1400 m	3.2 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Oil Industry and Geology. Intensification of oil production
550	"Butane"	25.06.1980	Bashkir ASSR, RSFSR, 40 km east of the city of Meleuz	Grachevskoye oil field, Well 3	-1390 m	3,2 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Oil Industry and Geology. Intensification of oil production
551		25.06.1980	Semipalatinsk test site	Degelen, Adit 127	-152 m	0.3 kt	-		
552		29.06.1980	Semipalatinsk test site	Balapan, Well 1227	-	44 kt	-	Group (x3)	
553		31.07.1980	Semipalatinsk test site	Degelen, Adit 902	-	20 kt	-	Group (x2)	
554		14.09.1980	Semipalatinsk test site	Balapan, Well 1220	-	200 kt	-		
555		25.09.1980	Semipalatinsk test site	Degelen, Adit K-1	-	5 kt	-		
556	" <u>Vega-1</u> "	08.10.1980	Astrakhan region, RSFSR, 40 km from Astrakhan	Well 1T	-1025 m	8.5 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Gas Industry. Creation of underground gas storage tanks. In 1987, the cavity was filled with gas condensate and accepted for operation
557		11.10.1980	Novaya Zemlya Polygon	Matochkin Shar, Adit A-25, Adit A-30	-600 m	130 kt	-	Group (x7)	
558		12.10.1980	Semipalatinsk test site	Balapan, Well 1087	-440 m, -510 m	102 kt	-	Group (x2)	
559		23.10.1980	Semipalatinsk test site	Degelen, Adit 204P	-	-	-		
560	"Batholith-1"	01.11.1980	Krasnoyarsk region, RSFSR	Well BT-1	-720 m	8 ct			Pilot-industrial explosion in the interests of the USSR Ministry of Geology. Deep seismic sounding of the earth's crust for the purpose of

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
									searching for structures promising for mineral exploration
561		05.12.1980	Semipalatinsk test site	Degelen, Adit 204PP	-36 m	0.1 kt			
562		05.12.1980	Semipalatinsk test site	Degelen, Adit 111P	-	-	-	Group (x3)	
563	"Angara"	05.12.1980	Tyumen region, RSFSR	Esi-Egovskoe field, Well	-2485 m	-			Pilot-industrial explosion in the interests of the USSR Ministry of Oil Industry and Geology. Intensification of oil production
564		14.12.1980	Semipalatinsk test site	Balapan, Well 1086	-	101 kt		Group (x3)	
565		26.12.1980	Semipalatinsk test site	Degelen, Adit Z-2P	-	2 ct			
566		27.12.1980	Semipalatinsk test site	Balapan, Well 1303	-	100 kt		Group (x2)	
567		25.03.1981	Semipalatinsk test site	Degelen, Adit 603-PP	-	0.001 kt	-		
568		29.03.1981	Semipalatinsk test site	Balapan, Well 1234	-	30 kt	-	Group (x3)	
569		22.04.1981	Semipalatinsk test site	Balapan, Well 1232	-	96 kt	-	Group (x3)	
570	"Pyrite"	25.05.1981	Arkhangelsk region, RSFSR	Kumzhinskoye gas field, Well	-1511 m	37.6 kt	-		An experimental industrial explosion in the interests of the USSR Ministry of Geology. Shutting off gas fountain wells. The fountain could not be eliminated due to inaccurate geological and geophysical initial data.
571		27.05.1981	Semipalatinsk test site	Balapan, Well 1203	-	20 kt	-		
572		04.06.1981	Semipalatinsk test site	Degelen, Adit 603-PPP	-	0.001 kt	-		
573		30.06.1981	Semipalatinsk test site	Degelen, Adit 187	-	12 kt	-	Group (x2)	
574		17.07.1981	Semipalatinsk test site	Degelen, Adit 106	-146 m	9.3 kt	-		
575		14.08.1981	Semipalatinsk test site	Degelen, Adit 184	-	5.6 kt	-	Group (x3)	
576	"Helium-1"	02.09.1981	Perm region, RSFSR, 20 km southeast of Krasnovishersk	Tyazhskoye deposit, Well 401	-2090 m	3.2 kt	-		Pilot-industrial explosion in the interests of the Ministry of Oil Industry and Geology and the Ministry of Gas Industry of the USSR. Intensification

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
									of oil and gas production
577		13.09.1981	Semipalatinsk test site	Balapan, Well 1233	-	150 kt	-		
578	" <u>Vega</u> "	26.09.1981	Astrakhan region, RSFSR	Well 2T/2	-1050 m	8.5 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Gas Industry. Creation of underground gas storage tanks. In 1987 the cavity was mothballed
579	" <u>Vega</u> "	26.09.1981	Astrakhan region, RSFSR	Well 4T/2	-1050 m	8.5 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Gas Industry. Creation of underground gas storage tanks. In 1987 the cavity was mothballed
580		01.10.1981	Novaya Zemlya Polygon	Matochkin Shar, Adit A-23	-600 m	140 kt	-	Group (x4)	
581		16.10.1981	Semipalatinsk test site	Degelen, Adit 136-PP	-	0.001 kt	-		
582		18.10.1981	Semipalatinsk test site	Balapan, Well 1236	-	107 kt	-	Group (x2)	
583	"Shpat-2"	22.10.1981	Krasnoyarsk region, RSFSR	Well ШП-2	-581 m	8.5 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Geology. Deep seismic sounding of the earth's crust for the purpose of searching for structures promising for mineral exploration
584		20.11.1981	Semipalatinsk test site	Degelen, Adit 103	-	8 ct	-	Group (x2)	In February 1982, the nuclear explosion cavity was opened. The temperature inside was 35-40 degrees, the exposure dose rate was 100-250 R/h. In July-August 1982, repeated measurements in the cavity showed a temperature of 30-35 degrees and an exposure dose rate of 5-25 R/h.
585		29.11.1981	Semipalatinsk test site	Balapan, Well 1237	-	31 kt	-	Group (x3)	

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
586		22.12.1981	Semipalatinsk test site	Degelen, Adit 135	-	7 ct	-	Group (x3)	
587		27.12.1981	Semipalatinsk test site	Balapan, Well 1312	-	150 kt	-		
588		19.02.1982	Semipalatinsk test site	Degelen, Adit 150	-	24 kt	-	Group (x2)	
x		06.04.1982	Semipalatinsk test site	Degelen	-	-	-	-	The test was not included in the list for unknown reasons.
589		25.04.1982	Semipalatinsk test site	Balapan, Well 1219	-	145 kt	-	Group (x4)	
590		25.06.1982	Semipalatinsk test site	Degelen, Adit 196	-	2.4 kt	-	Group (x2)	
591		04.07.1982	Semipalatinsk test site	Balapan, Well 1321	-	136 kt	-	Group (x3)	
592	"Rift-3"	31.07.1982	Irkutsk region, RSFSR, 160 km north of Irkutsk	Well RF-3	-854 m	8.5 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Geology. Deep seismic sounding of the earth's crust for the purpose of searching for structures promising for mineral exploration
593		23.08.1982	Semipalatinsk test site	Degelen, Adit 14P	-	1.7 kt	-	Group (x2)	
594		31.08.1982	Semipalatinsk test site	Balapan, Well 1317	-	8 ct	-	Group (x2)	
595	"Rift-1"	04.09.1982	Krasnoyarsk region, RSFSR	Well RF-1	-960 m	16 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Geology. Deep seismic sounding of the earth's crust for the purpose of searching for structures promising for mineral exploration
596		21.09.1982	Semipalatinsk test site	Degelen, Adit 203	-	12 kt	-	Group (x2)	
597	"Rift-4"	25.09.1982	Krasnoyarsk Krai, RSFSR, 25-30 km southeast of the village of Noginsk	Well RF-4	-554 m	8.5 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Geology. Deep seismic sounding of the earth's crust for the purpose of searching for structures promising for mineral exploration

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
598	"Neva-1"	10.10.1982	Yakut ASSR, RSFSR	Well 66	-1500 m	15 kt	-		Pilot-industrial explosion in the interests of the Ministry of Oil Industry and Geology and the Ministry of Gas Industry of the USSR. Intensification of oil and gas production
599		11.10.1982	Novaya Zemlya Polygon	Matochkin Shar, Adit A-37	-500 m	80 kt	-	Group (x4)	
600	" <u>Vega</u> "	16.10.1982	Astrakhan region, RSFSR	Well 3T	-975 m	13.5 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Gas Industry. Creation of underground gas storage tanks. In 1987, the cavity was filled with gas condensate and accepted for operation
601	" <u>Vega</u> "	16.10.1982	Astrakhan region, RSFSR	Well 5T	-990 m	8.5 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Gas Industry. Creation of underground gas storage tanks
602	" <u>Vega</u> "	16.10.1982	Astrakhan region, RSFSR	Well 6T	-1100 m	8.5 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Gas Industry. Creation of underground gas storage tanks. In 1987, the cavity was filled with gas condensate and accepted for operation
603	" <u>Vega</u> "	16.10.1982	Astrakhan region, RSFSR	Well 7T	-1060 m	8.5 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Gas Industry. Creation of underground gas storage tanks
604		05.12.1982	Semipalatinsk test site	Balapan, Well 1314	-	119 kt	-	Group (x2)	
605		25.12.1982	Semipalatinsk test site	Degelen, Adit 172	-112 m	1.7 kt	-	Group (x2)	
606		26.12.1982	Semipalatinsk test site	Balapan, Well 1415	-	42 kt	-	Group (x2)	
607		11.03.1983	Semipalatinsk test site	Degelen, Adit 150P	-	0.001 kt	-		

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
608		30.03.1983	Semipalatinsk test site	Degelen, Adit 177	-	2.7 kt	-		
x		11.04.1983	Semipalatinsk test site	Degelen	-	-	-	-	The test was not included in the list for unknown reasons.
609		12.04.1983	Semipalatinsk test site	Degelen, Adit 186	-	3 ct	-		
610		30.05.1983	Semipalatinsk test site	Degelen, Adit 215	-	20 kt	-	Group (x2)	
x		09.06.1983	Semipalatinsk test site	Degelen	-	-	-	-	The test was not included in the list for unknown reasons.
611		12.06.1983	Semipalatinsk test site	Balapan, Well 1320	-	138 kt	-	Group (x2)	
612		24.06.1983	Semipalatinsk test site	Degelen, Adit 176P	-	1.8 kt	-		
613	"Lyra"	20.07.1983	Kazakh SSR	Well 1T	-910 m	15 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Gas Industry. Creation of underground gas storage tanks
614	"Lyra"	20.07.1983	Kazakh SSR	Well 2T	-920 m	15 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Gas Industry. Creation of underground gas storage tanks
615	"Lyra"	20.07.1983	Kazakh SSR	Well 3T	-840 m	15 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Gas Industry. Creation of underground gas storage tanks
616		18.08.1983	Novaya Zemlya Polygon	Matochkin Shar, Adit A-40	-	150 kt	-	Group (x5)	
617		11.09.1983	Semipalatinsk test site	Degelen, Adit K-2	-	1.9 kt	-		
618	" <u>Vega</u> "	24.09.1983	Astrakhan region, RSFSR	Well 8T	-1050 m	8.5 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Gas Industry. Creation of underground gas storage tanks. In 1987 the cavity was mothballed
619	" <u>Vega</u> "	24.09.1983	Astrakhan region, RSFSR	Well 9T	-1050 m	8.5 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Gas Industry.

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
									Creation of underground gas storage tanks. In 1987 the cavity was mothballed
620	" <u>Vega</u> "	24.09.1983	Astrakhan region, RSFSR	Well 10T	-920 m	8.5 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Gas Industry. Creation of underground gas storage tanks. In 1987, the cavity was filled with gas condensate and accepted for operation
621	" <u>Vega</u> "	24.09.1983	Astrakhan region, RSFSR	Well 11T	-1100 m	8.5 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Gas Industry. Creation of underground gas storage tanks. In 1987, the cavity was filled with gas condensate and accepted for operation
622	" <u>Vega</u> "	24.09.1983	Astrakhan region, RSFSR	Well 12T	-950 m	8.5 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Gas Industry. Creation of underground gas storage tanks. In 1987, the cavity was filled with gas condensate and accepted for operation
623	" <u>Vega</u> "	24.09.1983	Astrakhan region, RSFSR	Well 13T	-1070 m	8.5 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Gas Industry. Creation of underground gas storage tanks. In 1987, the cavity was filled with gas condensate and accepted for operation
624		25.09.1983	Novaya Zemlya Polygon	Matochkin Shar, Adit A-21	-500 m	100 kt	-	Group (x4)	
625		06.10.1983	Semipalatinsk test site	Balapan, Well 1325	-	82 kt	-	Group (x2)	
626		26.10.1983	Semipalatinsk test site	Balapan, Well 1307	-	114 kt	-		
627		02.11.1983	Semipalatinsk test site	Degelen, Adit 203P	-	-	-		

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
628		20.11.1983	Semipalatinsk test site	Balapan, Well 1235	-	20 kt	-	Group (x2)	
629		29.11.1983	Semipalatinsk test site	Degelen, Adit 216	-	-	-		
630		29.11.1983	Semipalatinsk test site	Degelen, Adit 180	-	19 ct	-	Group (x2)	
631		26.12.1983	Semipalatinsk test site	Degelen, Adit 129	-	30 kt	-		
632		19.02.1984	Semipalatinsk test site	Balapan, Well 1331	-	49 kt	-		
633		07.03.1984	Semipalatinsk test site	Balapan, Well 1308	-	42 kt	-		
634		29.03.1984	Semipalatinsk test site	Balapan, Well 1335	-	83 kt	-		
635		15.04.1984	Semipalatinsk test site	Degelen, Adit 190	-	60 kt	-	Group (x2)	In July-August 1984, the nuclear explosion cavity was opened. The cavity radius was 25 m. The temperature inside was 30-35 degrees, the exposure dose rate was 30-200 R/h.
636		25.04.1984	Semipalatinsk test site	Balapan, Well 1316	-	76 kt	-	Group (x2)	
637		26.05.1984	Semipalatinsk test site	Balapan, Well 1414	-	130 kt	-	Group (x2)	
x		07.09.1984	Semipalatinsk test site	Degelen	-	-	-	-	The test was not included in the list for unknown reasons.
638		14.07.1984	Semipalatinsk test site	Balapan, Well 1344	-	635 kt	-	Group (x2)	
639	"Lyra"	21.07.1984	Kazakh SSR	Well 4T	-850 m	15 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Gas Industry. Creation of underground gas storage tanks
640	"Lyra"	21.07.1984	Kazakh SSR	Well 5T	-960 m	15 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Gas Industry. Creation of underground gas storage tanks
641	"Lyra"	21.07.1984	Kazakh SSR	Well 6T	-840 m	15 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Gas Industry. Creation of underground gas storage tanks
642	"Quartz-2"	11.08.1984	Komi ASSR, RSFSR, 80 km	Well K-2	-759 m	8.5 kt	-		Pilot-industrial explosion in

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
			southwest of Pechora						the interests of the USSR Ministry of Geology. Deep seismic sounding of the earth's crust for the purpose of searching for structures promising for mineral exploration
643	"Quartz-3"	25.08.1984	Tyumen region, RSFSR	Well K-3	-726 m	8.5 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Geology. Deep seismic sounding of the earth's crust for the purpose of searching for structures promising for mineral exploration
644		26.08.1984	Novaya Zemlya Polygon	Matochkin Shar, Adit A-100	-	0.6 kt	-		
645	"Dnepr-2"	27.08.1984	Murmansk region, RSFSR	Gallery	-180 m, -160 m	3.4 kt		Group (x2)	Pilot-industrial explosion in the interests of the USSR Ministry of Mineral Fertilizers. Crushing of ore
646	"Helium"	28.08.1984	Perm region, RSFSR, 20 km southeast of Krasnovishersk	Tyazhskoye deposit, Well 402	-2065 m	3.2 kt	-		Pilot-industrial explosion in the interests of the Ministry of Oil Industry and Geology and the Ministry of Gas Industry of the USSR. Intensification of oil and gas production
647	"Helium"	28.08.1984	Perm region, RSFSR, 20 km southeast of Krasnovishersk	Tyazhskoye deposit, Well 403	-2075 m	3.2 kt	-		Pilot-industrial explosion in the interests of the Ministry of Oil Industry and Geology and the Ministry of Gas Industry of the USSR. Intensification of oil and gas production
648		09.09.1984	Semipalatinsk test site	Degelen, Adit 132	-	6 ct	-	Group (x4)	
649	"Quartz-4"	18.09.1984	Kemerovo region, RSFSR, 50 km southwest of Mariinsk	Well K-4	-560 m	10 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Geology. Deep seismic sounding of

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
									the earth's crust for the purpose of searching for structures promising for mineral exploration
650		18.10.1984	Semipalatinsk test site	Degelen, Adit 200M-bis	-106 m	1, 4 ct	-		
651		25.10.1984	Novaya Zemlya Polygon	Matochkin ball, Adit A-26	-500 m	110 kt	-	Group (x4)	
652	" <u>Vega</u> "	10/27/1984	Astrakhan region, RSFSR	Well 14T	-850 m	3.2 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Gas Industry. Creation of underground gas storage tanks. In 1987, the cavity was accepted into operation for the development of production wells of the field
653	" <u>Vega</u> "	10/27/1984	Astrakhan region, RSFSR	Well 15T	-950 m	3.2 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Gas Industry. Creation of underground gas storage tanks. In 1987, the cavity was accepted into operation for the development of production wells of the field
654		10/27/1984	Semipalatinsk test site	Balapan, Well 1323	-	150 kt	-		
655		23.11.1984	Semipalatinsk test site	Degelen, Adit 803bis	-	1.4 kt	-	Group (x3)	
656		02.12.1984	Semipalatinsk test site	Balapan, Well 1411	-	79 kt	-	Group (x2)	
657		16.12.1984	Semipalatinsk test site	Balapan, Well 1313	-	137 kt	-	Group (x2)	
658		28.12.1984	Semipalatinsk test site	Balapan, Well 1353	-	105 kt	-	Group (x2)	
659		10.02.1985	Semipalatinsk test site	Balapan, Well 1340	-	62 kt	-	Group (x3)	
660		25.04.1985	Semipalatinsk test site	Balapan, Well 1319	-	74 kt	-	Group (x2)	
661		15.06.1985	Semipalatinsk test site	Balapan, Well 1341, Well 1061bis	-	114 kt	-	Group (x3)	
662	"Benzene"	18.06.1985	Tyumen region, RSFSR	Sredne-Balykskoe field, Well	-2860 m	2.5 kt	-		Pilot-industrial explosion in the interests of the Ministry of Oil Industry and Geology and the Ministry of Gas

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
									Industry of the USSR. Intensification of oil and gas production
663		30.06.1985	Semipalatinsk test site	Balapan, Well 1354	-	86 kt	-	Group (x2)	
664		11.07.1985	Semipalatinsk test site	Degelen, Adit 175-PP	-	0.5 kt	-		
665		19.07.1985	Semipalatinsk test site	Degelen, Adit 901	-	-	-		
666	"Agate"	19.07.1985	Arkhangelsk region, RSFSR, 150 km west of the city of Mezen	Well	-772 m	8.5 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Geology. Deep seismic sounding of the earth's crust for the purpose of searching for structures promising for mineral exploration
667		20.07.1985	Semipalatinsk test site	Balapan, Well 1322	-	74 kt	-		
668		25.07.1985	Semipalatinsk test site	Degelen, Adit 152	-	5 kt	-	Group (x4)	
669		26.02.1987	Semipalatinsk test site	Degelen, Adit 130	-	24 kt	-		
670		12.03.1987	Semipalatinsk test site	Balapan, Well 1315	-	11 ct	-	Group (x2)	
671		03.04.1987	Semipalatinsk test site	Balapan, Well 1318	-	140 kt	-		
672		03.04.1987	Semipalatinsk test site	Degelen, Adit 208	-	1 ct	-	Group (x3)	
673		17.04.1987	Semipalatinsk test site	Balapan, Well 1384	-	86 kt	-	Group (x3)	
x		17.04.1987	Semipalatinsk test site	Degelen	-	-	-	-	The test was not included in the list for unknown reasons.
674	"Helium"	19.04.1987	Perm region, RSFSR, 20 km southeast of Krasnovishersk	Tyazhskoye deposit, Well 404	-2015 m	3.2 kt	-		Pilot-industrial explosion in the interests of the Ministry of Oil Industry and Geology and the Ministry of Gas Industry of the USSR. Intensification of oil and gas production

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
675	"Helium"	19.04.1987	Perm region, RSFSR, 20 km southeast of Krasnovishersk	Tyazhskoye deposit, Well 405	-2055 m	3.2 kt	-		Pilot-industrial explosion in the interests of the Ministry of Oil Industry and Geology and the Ministry of Gas Industry of the USSR. Intensification of oil and gas production
676		06.05.1987	Semipalatinsk test site	Degelen, Adit 164	-	40 kt	-		
677		06.06.1987	Semipalatinsk test site	Degelen, Adit 138	-	24 kt	-		
678		20.06.1987	Semipalatinsk test site	Balapan, Well 1326	-	107 kt	-	Group (x2)	
679	"Neva"	07.07.1987	Yakut ASSR, RSFSR	Well 68	-1515 m	15 kt	-		Pilot-industrial explosion in the interests of the Ministry of Oil Industry and Geology and the Ministry of Gas Industry of the USSR. Intensification of oil and gas production
680		17.07.1987	Semipalatinsk test site	Degelen, Adit 168	-267 m	78 kt			
681	"Neva"	24.07.1987	Yakut ASSR, RSFSR	Well 61	-1520 m	15 kt	-		Pilot-industrial explosion in the interests of the Ministry of Oil Industry and Geology and the Ministry of Gas Industry of the USSR. Intensification of oil and gas production
682		02.08.1987	Novaya Zemlya Polygon	Matochkin Shar, Adit A-37A	-190 m	150 kt	-	Group (x5)	After the test, an abnormal radiation situation developed: a breakthrough of a steam-gas mixture from a crack in the glacier, the formation of a radioactive cloud of 500 R/h over the technological site, the area of radioactive contamination was 0.3 km2
683		02.08.1987	Semipalatinsk test site	Balapan, Well 1348	-	72 kt	-	Group (x3)	
684	"Neva"	12.08.1987	Yakut ASSR, RSFSR	Well 101	-834 m	3.2 kt	-		Pilot-industrial explosion in the interests of the Ministry of Oil Industry and Geology and the

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
									Ministry of Gas Industry of the USSR. Intensification of oil and gas production
685		18.09.1987	Semipalatinsk test site	Degelen, Adit 132P	-	1.1 kt	-	Group (x2)	
686	"Batholith-2"	03.10.1987	Kazakh SSR	Well BT-2	-1002 m	8.5 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Geology. Deep seismic sounding of the earth's crust for the purpose of searching for structures promising for mineral exploration
687		16.10.1987	Semipalatinsk test site	Degelen, Adit K-85	-81 m	1.1 kt	-		
688		11/15/1987	Semipalatinsk test site	Balapan, Well 1332	-	103 kt	-	Group (x2)	
689		13.12.1987	Semipalatinsk test site	Balapan, Well 1355	-	137 kt	-	Group (x2)	
690		20.12.1987	Semipalatinsk test site	Degelen, Adit 164P	-	5 kt	-		
691		27.12.1987	Semipalatinsk test site	Balapan, Well 1388	-	117 kt	-	Group (x2)	
692		06.02.1988	Semipalatinsk test site	Degelen, Adit 168P	-	5 kt		Group (x3)	
693		13.02.1988	Semipalatinsk test site	Balapan, Well 1361	-	123 kt	-	Group (x2)	
694		03.04.1988	Semipalatinsk test site	Balapan, Well 1336	-	135 kt	-		
695		22.04.1988	Semipalatinsk test site	Degelen, Adit 704	-124 m	2.3 kt	-		
696		04.05.1988	Semipalatinsk test site	Balapan, Well 1359	-	132 kt	-		
697		08.05.1988	Novaya Zemlya Polygon	Matochkin Shar, Adit A-24	-300 m	80 kt	-	Group (x3)	
698		14.06.1988	Semipalatinsk test site	Balapan. Well 1421	-	4 ct	-		
699	"Rubin-2"	22.08.1988	Tyumen region, RSFSR	Well RN-2	-829 m	15 kt	-		Pilot-industrial explosion in the interests of the USSR Ministry of Geology. Deep seismic sounding of the earth's crust for the purpose of searching for structures promising for mineral exploration
700	"Rubin-1"	06.09.1988	Arkhangelsk region, RSFSR, 80 km northeast of Kotlas (160 km northeast of the city of Veliky Ustyug)	Well RN-1	-820 m	8.5 kt	-		An experimental industrial explosion in the interests of the USSR

No.	Name	Date	Venue	The site	Depth	Power	Charge type	Group explosion	Notes
									Ministry of Geology. Deep seismic sounding of the earth's crust in order to find structures promising for mineral exploration. The last nuclear explosion for peaceful purposes in the USSR.
701		14.09.1988	Semipalatinsk test site	Balapan, Well 1350	-	150 kt	-		Joint Soviet-American experiment to monitor the implementation of the Treaty on the Limitation of Underground Nuclear Weapons Tests (TEST).
702		18.10.1988	Semipalatinsk test site	Degelen, Adit 034	-	6 ct	-		
703		12.11.1988	Semipalatinsk test site	Balapan, Well 1412	-	15 kt	-		
704		23.11.1988	Semipalatinsk test site	Degelen, Adit 169/1	-204 m	19 ct	-	Group (x3)	
705		04.12.1988	Novaya Zemlya Polygon	Matochkin Shar, Adit A-27	-400 m	140 kt	-	Group (x5)	
706		17.12.1988	Semipalatinsk test site	Balapan, Well 1346	-	68 kt	-	Group (x2)	
707		28.12.1988	Semipalatinsk test site	Degelen, Adit 901P	-	0,2 kt	-	Group (x2)	
708		22.01.1989	Semipalatinsk test site	Balapan, Well 1328	-	118 kt	-	Group (x2)	
709		12.02.1989	Semipalatinsk test site	Balapan, Well 1366	-	63 kt	-		
710		17.02.1989	Semipalatinsk test site	Degelen, Adit 139	-	10 kt	-		
711		08.07.1989	Semipalatinsk test site	Balapan, Well 1352	-	22 kt	-		
712		02.09.1989	Semipalatinsk test site	Balapan, Well 1410	-	6 ct	-	Group (x2)	
713		04.10.1989	Semipalatinsk test site	Degelen, Adit 169/2	-94 m	4 ct	-		
714		19.10.1989	Semipalatinsk test site	Balapan, Well 1365	-628 m, -592 m, -556 m		85 kt	Group (x3)	The last nuclear test at the Semipalatinsk test site.
715		24.10.1990	Novaya Zemlya Polygon	Matochkin Shar, Adit A13-N	-600 m	70 kt	-	Group (x8)	The last nuclear test at the Novaya Zemlya test site and in the USSR.

See also

- [Chronology of nuclear tests in the USSR \(1949-1962\)](#)

- [The creation of the Soviet atomic bomb](#)
- [Comprehensive Nuclear-Test-Ban Treaty](#)

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